

ABSTRACT

A roll for guiding at least one yarn in a yarn processing operation and comprising a tubular roll sleeve which is mounted for free rotation on a support by a plurality of bearings. At least one of the bearings is constructed as a radially operative magnetic bearing, which comprises a plurality of bearing pole windings distributed in the circumferential direction of the roll sleeve and which have predetermined pole cross sections. At least one of the bearing pole windings has a pole cross section which is larger or smaller than the pole cross sections of one or more of the other bearing pole windings, so as to permit the load profile imparted to the sleeve by a running yarn to be balanced over the circumference of the sleeve.

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